

# UBE2D3

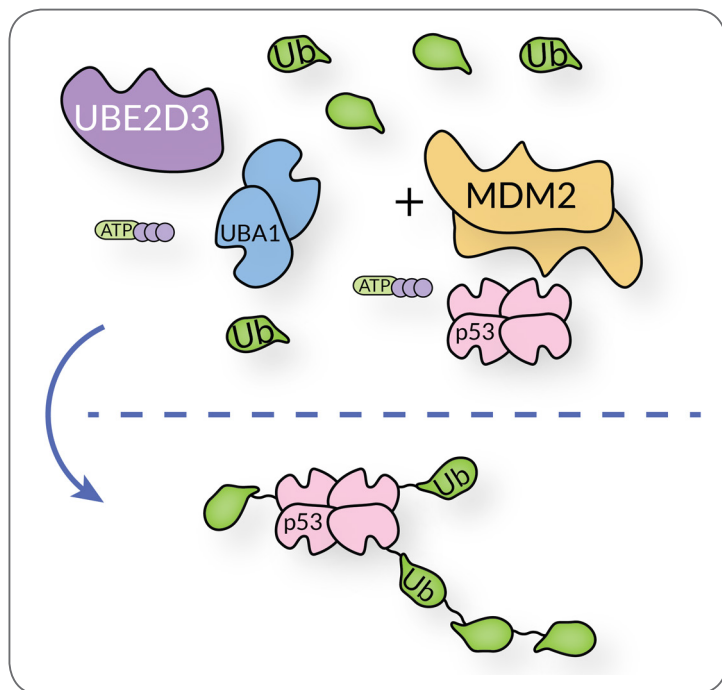
Cat. No. SBB-CE0019  
Lot. No. 163060019



# South Bay Bio

## UBE2D3

UBE2D3 is an E2 ubiquitin conjugating enzyme. An E1 activating enzyme is required to attach ubiquitin to UBE2D3 via an active site cysteine. The mechanism of ubiquitin transfer involves the breaking of a E1-Ub thioester linkage, followed by a reformation of a UBE2D3-Ub thioester. UBE2D3 is capable of associating with numerous known E3 ligases including MDM2, which target proteins such as p53 for proteasomal degradation through polyubiquitination. This recombinant UBE2D3 is expressed in *E.coli*.



**UBE2D3.** Can pair with E3 ligase MDM2 to ubiquitinate p53.

## Product Information

**Quantity:** 100µg **Molecular Weight:** 17 kDa

**Concentration:** 50 µM, 0.085mg/mL

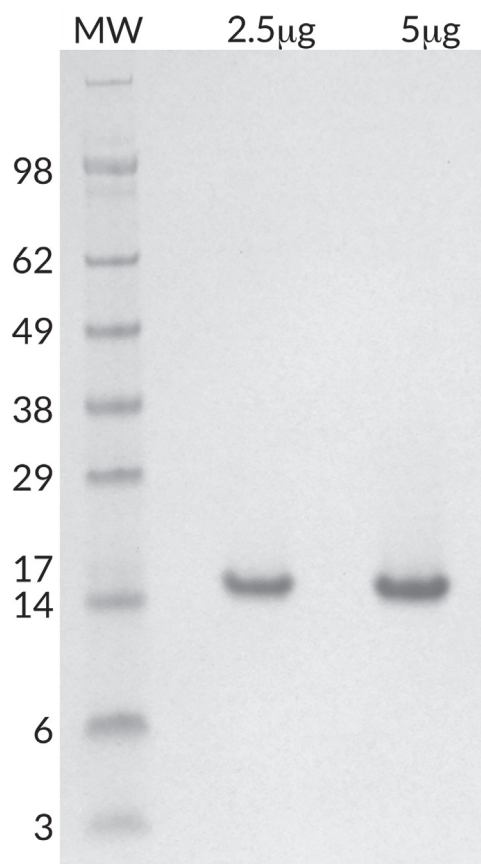
**Purity:** >95% by SDS-PAGE

**Storage Buffer:** HEPES pH 7.5, 150mM NaCl, 10% glycerol, 2mM TCEP

**Storage:** -80C, Avoid multiple freeze / thaw

**Usage:** Working concentrations of this enzyme range from 1 to 5µM.

## Quality Control and Performance Data



**UBE2D3 SDS-PAGE.** From left to right, increasing amounts of UBE2D3 loaded onto a 4-20% SDS-PAGE gel, stained with coomassie brilliant blue. Purity is > 95%.

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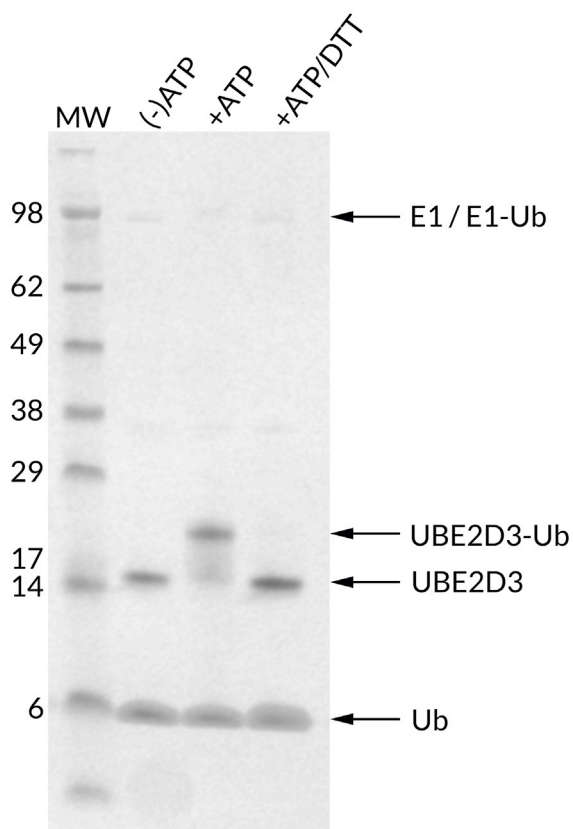
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**Thioester Activity Assay.** UBE2D3 forms a thioester with UB in an ATP dependent manner, and the bond can be reduced with addition of excess DTT. The UBE2D3 is active.

## References

- 1) Geisler, Sven, et al. "The ubiquitin-conjugating enzymes UBE2N, UBE2L3 and UBE2D2/3 are essential for Parkin-dependent mitophagy." *J Cell Sci* 127.15 (2014): 3280-3293.
- 2) Smit, Judith J., et al. "The E3 ligase HOIP specifies linear ubiquitin chain assembly through its RING-IBR-RING domain and the unique LDD extension." *The EMBO journal* 31.19 (2012): 3833-3844.

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